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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/183,621	10/30/98	LIVESEY	M 49658-025

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LMC1/0621

EXAMINER

HARRISON, C

ART UNIT

PAPER NUMBER

2779

DATE MAILED:

06/21/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
09/183,621

Applicant(s)  
Livesey

Examiner  
Chante' Harrison

Group Art Unit  
2779

☒ Responsive to communication(s) filed on Oct 30, 1998

☐ This action is FINAL.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-15 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-15 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 7-13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen, U.S. Patent 5,956,043, 9/1999, 345/430.

As per independent claim 1, Jensen discloses receiving texture image data (col. 6, ll. 10-21), covering a target area in an aperiodic tiling pattern (col. 6, ll. 6, ll. 37-46; col. 7, ll. 4-15). It would have been obvious to one of ordinary skill in the art at the time of invention to use the teachings of Jensen because he allows user or program manipulation for the generation and mapping of supertiles.

As per dependent claim 2 and 9, Jensen discloses scanning images into memory (col. 6, ll. 10-18).

As per dependent claim 3 and 10, Jensen discloses selecting an aperiodic tiling pattern (col. 6, ll. 40-46; col. 7, ll. 33-34), generating a set of tiles (col. 6, ll. 37-51), applying the tiles to the target area (FIG. 14; col. 7-8, ll. 55-10).

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As per dependent claim 4 and 11, Jensen discloses covering the target area with tiles using the tiling pattern (FIG. 14), and mapping textured tiles to the aperiodic tiles (col. 7-8, ll. 55-10).

As per dependent claim 5 and 12, Jensen discloses generating a tiling (col. 6, ll. 37-51), the tiling associated with tiles based on the aperiodic tiling pattern (col. 6-7, ll. 59-9), and mapping the textured tiles to the tiling (col. 7, ll 5-9; col. 7-8, ll. 55-10).

As per dependent claim 7 and 13, Jensen discloses using various programs (col. 6, ll. 1-8), but fails to specifically disclose a CAD program. However it would have been obvious to one skilled in the art at the time of invention to use Jensen's disclosure because he discloses using programs to automate tiling generation and mapping.

As per independent claim 8, Jensen discloses instructions (col. 6, ll. 1-8) for performing the method of claim 1. Therefore the rejection as applied to claim 1 is included herein.

As per independent claim 15, Jensen discloses a display (FIG. 10), a target area on the display (col. 7-8, ll. 55-10) and memory (col. 5, ll. 15-30). The rejection as applied to claim 1 is included herein.

3. Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen as applied to claims 1 and 8 above, and further in view of Deutsch et al., U.S. Patent 5,226,175, 7/1993, 345/419.

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As per dependent claim 6 and 14, Deutsch discloses determining a substitution tiling level and using the substitution level to generate the tiling (abstract; col. 6, ll. 20-31), which Jensen fails to disclose. However it would have been obvious to one skilled in the art at the time of invention to combine the disclosures of Deutsch with Jensen because both generate and manipulate supertiles.

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*Citation of Pertinent Prior Art*

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Stephen Schiller, U.S. Patent 5,235,435, 8/1993, 358/456

Stephen Schiller, U.S. Patent 5,285,291, 2/1994, 358/453

Stephen Schiller et al., U.S. Patent 5,305,118, 4/1994, 358/456

Naamen Keskes et al., U.S. Patent 6,011,557, 1/2000, 345/430

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*Conclusion*

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
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**or faxed to:**

(703) 305-9051, (for formal communications intended for entry)

**OR:**

(703) 308-6606 (for informal or draft communications, please label  
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal  
Drive, Arlington, VA., Sixth Floor (Receptionist).

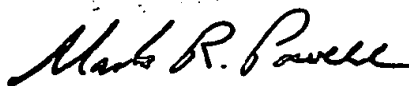
Any inquiry concerning this communication or earlier communications from the examiner  
should be directed to Chante' Harrison whose telephone number is (703) 305-3937. She can  
normally be reached on Monday-Thursday from 8:00am - 5:00pm.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor Mark  
Powell, can be reached on (703) 305-9703.

Any inquiry of a general nature or relating to the status of this application should be  
directed to the Group receptionist whose telephone number is (703) 305-3900.

Chante' Harrison

June 7, 2000

  
MARK R. POWELL  
SUPERVISORY PATENT EXAMINER  
GROUP 2700